

Title (en)

Reducing sparkle artifacts using low-brightness image processing

Title (de)

Reduzierung von Artefakten in Helligkeitsflimmern mit einer Bildverarbeitung, die niedrige Helligkeit verwendet

Title (fr)

Réduction des artefacts de scintillements, en utilisant un traitement d'images sur les bas-niveaux de luminosité

Publication

EP 1239449 B1 20050608 (EN)

Application

EP 02290584 A 20020308

Priority

US 80324901 A 20010309

Abstract (en)

[origin: EP1239449A2] A method for reducing sparkle artifacts in a liquid crystal imager, comprises the steps of: low pass filtering only a first lower brightness level signal component of a video signal; and, slew rate limiting only a second lower brightness level signal component of the video signal having the low pass filtered signal component, the video signal having the low pass filtered and the slew rate limited signal components being less likely to result in sparkle artifacts in the imager. Brightness thresholds for defining the lower brightness level signal components and slew rate limits can be selected in accordance with transitions between lower and higher level gain portions of a gamma table associated with the imager, for example an LCOS imager. <IMAGE>

IPC 1-7

G09G 3/36; G06T 5/00; H04N 5/20; G09G 3/20; G06F 3/147

IPC 8 full level

G02F 1/13 (2006.01); **G09G 3/36** (2006.01); **H04N 5/66** (2006.01); **H04N 9/64** (2006.01); **H04N 5/20** (2006.01); **H04N 5/21** (2006.01); **H04N 9/30** (2006.01)

CPC (source: EP KR US)

G02F 1/13 (2013.01 - KR); **G09G 3/3611** (2013.01 - EP US); **H04N 9/646** (2013.01 - EP US); **G09G 2320/0247** (2013.01 - EP US); **G09G 2320/0606** (2013.01 - EP US); **G09G 2320/0626** (2013.01 - EP US); **H04N 5/20** (2013.01 - EP US); **H04N 5/21** (2013.01 - EP US); **H04N 9/30** (2013.01 - EP US)

Cited by

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